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L4

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<u>L4</u>	L3 and (insulat? or dielectric)	24	<u>L4</u>
<u>L3</u>	(thermal near5 (catalysis))	149	<u>L3</u>
<u>L2</u>	(thermal near2 (catalysis)) near5 (insulat? or dielectric)	0	<u>L2</u>
<u>L1</u>	(thermal near2 (catalysis or catalyst)) near5 (insulat? or dielectric)	6	<u>L1</u>

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L4: Entry 3 of 24

File: USPT

Jan 2, 2001

DOCUMENT-IDENTIFIER: US 6169125 B1

TITLE: Electrically conductive resinous material and radiation curable formulation for producing the same

Abstract Text (1):

A radiation-curable formulation employs an electrically conductive filler comprised of elements of elongate form, which elements have surfaces that reflect the actinic radiation to which the photoinitiator employed is responsive. Silver-coated cylindrical fibers or rods will typically constitute the conductive filler, and solid deposits cured from the formulation may function as, for example, sealing elements, gaskets, and solder-like joints. In certain preferred embodiments the formulation will include an active oxygen free radical-generating catalyst, the presence of which enhances curing even though the reaction conditions are such that normal thermal catalysis temperatures are not attained.

Brief Summary Text (15):

The elongate filler elements may themselves be metallic; usually however they will comprise a core of a dielectric material, such as glass, plastic, or nonmetallic mineral, coated with a metallic material. Although silver will generally be employed, other suitable metals (such as gold, platinum, copper, aluminum, lithium, nickel, chrome, iron, and mixtures and alloys thereof) may be substituted if so desired. The elongate filler elements will preferably be of generally cylindrical form, most desirably comprising chopped filaments of various lengths, and will as a practical matter usually comprise about 20 to 80 percent of the volume of the formulation; in preferred embodiments the conductive filler will comprise about 30 to 70 percent of the formulation and, most desirably, it will comprise about 40 to 60 percent thereof.

Detailed Description Text (32):

Indeed, while it is believed that greatest benefit will be derived from the use of electrically conductive elongate fillers, it should nevertheless be appreciated that elongate dielectric or semiconducting fillers may also be found to afford significant advantages in radiation-curable formulations. Such fillers may serve essentially to increase the depth of cure by promoting penetration of actinic radiation, and thus may desirably be incorporated irrespective of whether or not electrical conductivity is also afforded or is substantially enhanced.

CLAIMS:

4. A The formulation of claim 2 wherein said elongate filler elements comprise a core of a dielectric material carrying a coating of a metallic material.

5. The formulation of claim 4 wherein said dielectric core material is selected from the class consisting of glass, plastics, and nonmetallic minerals.

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L1: Entry 1 of 6

File: USPT

Jan 14, 2003

US-PAT-NO: 6506979

DOCUMENT-IDENTIFIER: US 6506979 B1

TITLE: Sequential build circuit board

DATE-ISSUED: January 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shelnut; James G.	Northboro	MA		
Shipley; Charles R.	Auburndale	MA		

US-CL-CURRENT: 174/255; 174/262, 361/750, 430/315, 439/65, 439/84

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L1: Entry 1 of 6

File: USPT

Jan 14, 2003

DOCUMENT-IDENTIFIER: US 6506979 B1
TITLE: Sequential build circuit board

Detailed Description Text (35):

The catalysts are photoactivators or thermal activators suitable for use in the permanent dielectric coating material are any which catalyze the reaction of the low dielectric constant, crosslinkable material with the reactive diluent; and optionally any crosslinking agent. Such catalysts include, but are not limited to, photoacid generators, photobase generators, thermal acid generators, thermal base generators, and mixtures thereof. The amount of catalyst useful is any amount that catalyzes the reaction and may vary from 0.1 to 25% by weight, based on the weight of the composition. It is preferred that the catalyst is present in an amount in the range of 0.5 to 15% by weight, and more preferably in the range of 1 to 12% by weight.

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L1: Entry 2 of 6

File: USPT

Apr 9, 2002

US-PAT-NO: 6368697

DOCUMENT-IDENTIFIER: US 6368697 B1

TITLE: Method of manufacturing an interlayer via and a laminate precursor useful for same

DATE-ISSUED: April 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Petti; Michael	Buffalo Grove	IL		
Smith; Gordon C.	Arlington Heights	IL		

US-CL-CURRENT: 428/209; 174/250, 174/258, 174/262, 428/344,
428/345, 428/352

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L1: Entry 2 of 6

File: USPT

Apr 9, 2002

DOCUMENT-IDENTIFIER: US 6368697 B1

TITLE: Method of manufacturing an interlayer via and a laminate precursor useful for same

Detailed Description Text (21):

Optionally, the photosensitive dielectric composition may comprise a curing catalyst such as a thermal curing catalyst, for example, tertiary amines, imidazoles phosphines. The thermal curing catalyst may be present in an amount of from about 0.01% to about 10%, more preferably from about 0.02% to about 5% and most preferably from about 0.5% to about 2% by weight of the nonsolvent parts of the photosensitive dielectric composition.

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L1: Entry 3 of 6

File: USPT

Jul 3, 2001

US-PAT-NO: 6255039

DOCUMENT-IDENTIFIER: US 6255039 B1

TITLE: Fabrication of high density multilayer interconnect printed circuit boards

DATE-ISSUED: July 3, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Xu; Chengzeng	Succasunna	NJ		
Yardley; James T.	Morristown	NJ		
Haas; David	Westfield	NJ		
Vallance; Michael	La Crosse	WI		
Gotro; Jeffrey T.	Onalaska	WI		
Petti; Michael A.	Buffalo Grove	IL		

US-CL-CURRENT: 430/318; 428/96, 430/313, 430/316

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L1: Entry 3 of 6

File: USPT

Jul 3, 2001

DOCUMENT-IDENTIFIER: US 6255039 B1

TITLE: Fabrication of high density multilayer interconnect printed circuit boards

Detailed Description Text (9):

Optionally, the photosensitive dielectric composition may comprises a curing catalyst such as a thermal curing catalyst, for example, tertiary amines, imidazoles phosphines. The thermal curing catalyst may be present in an amount of from about 0.01% to about 10%, more preferably from about 0.02% to about 5% and most preferably from about 0.05% to about 2% by weight of the nonsolvent parts of the photosensitive dielectric composition.

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L1: Entry 6 of 6

File: USPT

Aug 8, 1995

DOCUMENT-IDENTIFIER: US 5439651 A

TITLE: Catalyzer support system for exhaust cleaning of outboard motor

Brief Summary Text (10):

It is a yet further object to this invention to provide an improved and compact catalytic system for an outboard motor that will insure full treatment of the exhaust gases and yet afford a support for the catalyst that will insulate it from thermal damage.

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L1: Entry 5 of 6

File: USPT

Feb 13, 1996

US-PAT-NO: 5490382

DOCUMENT-IDENTIFIER: US 5490382 A

TITLE: Catalyzer support system for exhaust cleaning of outboard motor

DATE-ISSUED: February 13, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kato; Masahiko	Hamamatsu			JP

US-CL-CURRENT: 60/297; 422/179, 440/89, 60/302

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L1: Entry 5 of 6

File: USPT

Feb 13, 1996

DOCUMENT-IDENTIFIER: US 5490382 A

TITLE: Catalyzer support system for exhaust cleaning of outboard motor

Brief Summary Text (10):

It is a yet further object to this invention to provide an improved and compact catalytic system for an outboard motor that will insure full treatment of the exhaust gases and yet afford a support for the catalyst that will insulate it from thermal damage.